



IT PROJECT MANAGEMENT

ALEX MARZELLA – DIRECTOR IDEE GROUP
PROJECT DELIVERY METHODOLOGIES

- **Introductions**
- **Purpose of methodologies**
- **Types of methodologies**
- **Agile**
- **Delivery model**

Q & A

Who are we



From strategy to delivery, IDEE Group shapes the way our clients deliver change through proven leading edge and best practice project management delivery practices. We design, implement and manage projects, programmes and PMO's, or improve your ability to run them better.

IDEE Group combine deep project delivery and PMO implementation experience with a fact-based and disciplined approach in everything we do. We deliver highly effective strategic solutions to our clients by leveraging our expertise through our thinking and approach to explore, envisage and execute.

1993

2001

2013

2015

2017

My career

Portfolio Head New
Businesses & Chief
Technology Office

IT'S HOW
WE CONNECT



Director

IDEE
GROUP.

Business Portfolio
Manager



Head of Project
Management Office

coles

Construction Engineer /
Project Manager



MBA



B. Eng (Civil)

Project Delivery Methodologies

Alex Marzella, Director

Delivering change is difficult

"There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success, than to take the lead in the introduction of a new order of things."

**— Niccolo Machiavelli
The Prince (1532)**

Purpose of Methodologies

1. Reduce execution risk

- Limited resources (people and \$\$\$)
- Executives want certainty

2. Improve time to value

- Limited resources (people and \$\$\$)
- Executives want certainty

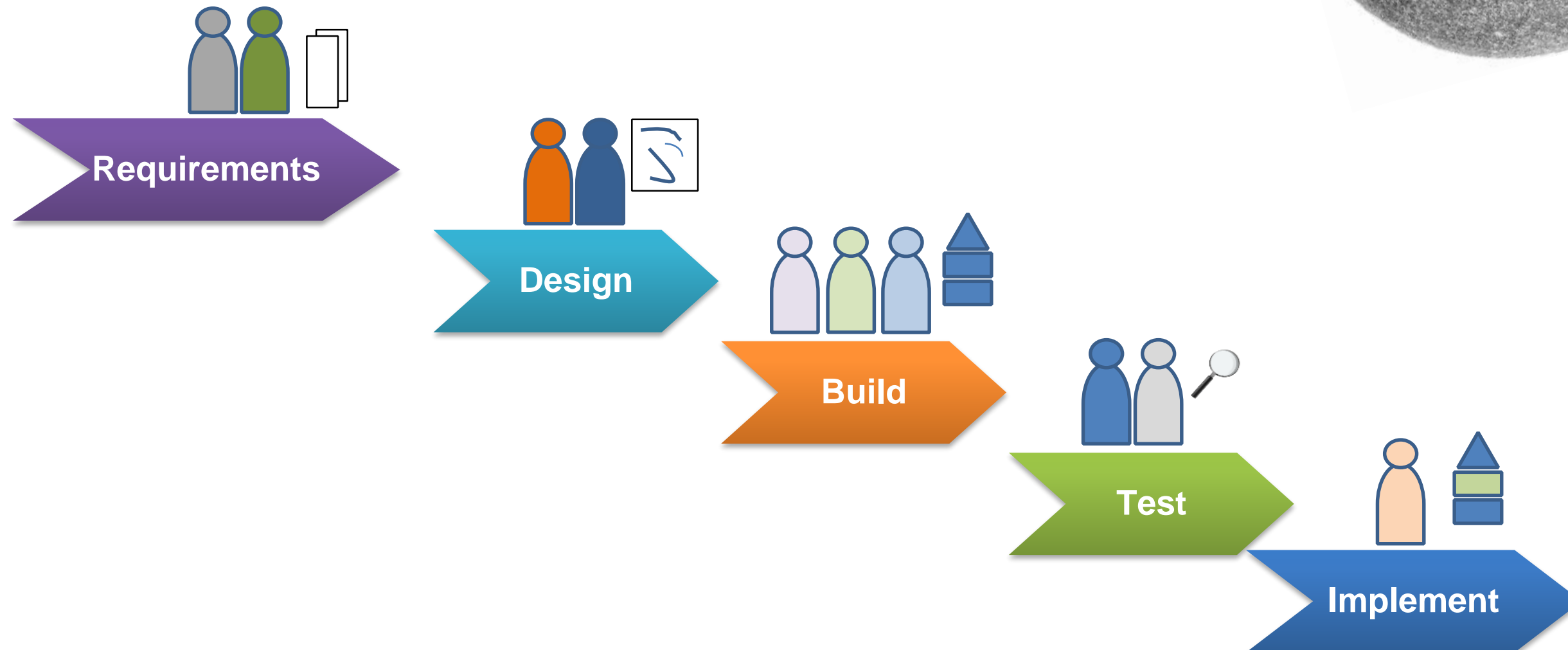
Types of software development lifecycles used

Waterfall

Requirements, design, build, test and deploy at the end

Software Development Life Cycle

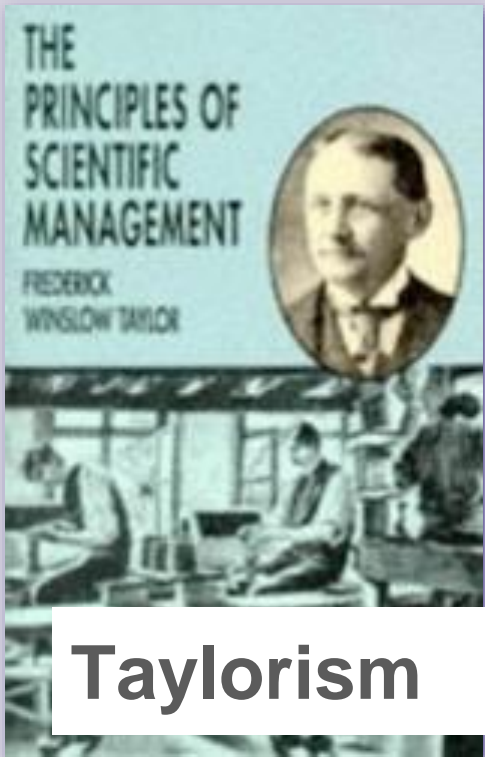
Sequential



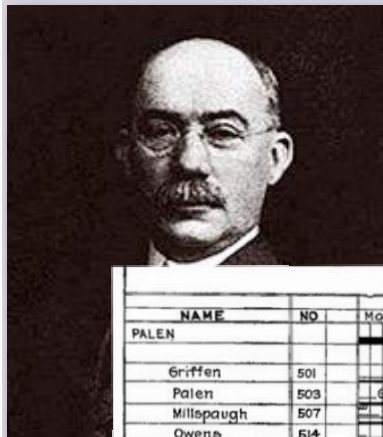
The Challenge...

WE COST TOO MUCH,
TAKE TOO LONG,
WE DON'T KNOW
IF WE ARE BUILDING THE RIGHT THING FOR
OUR CUSTOMERS, OR KNOW WHAT VALUE WE
PRODUCE.

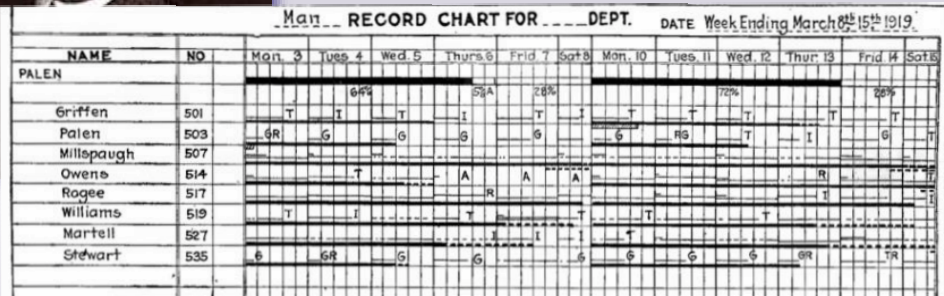
Thinking built from industrial age



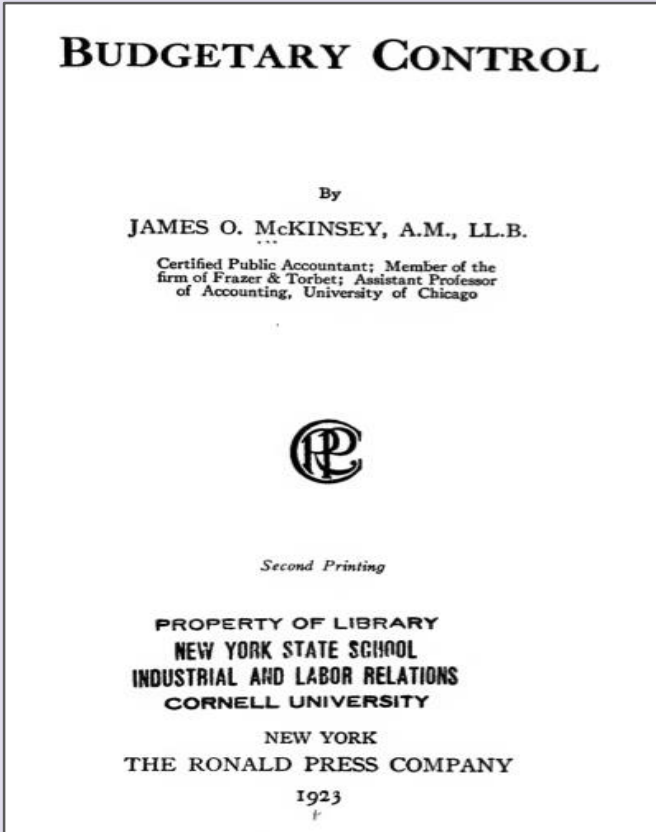
Taylorism



Gantt



Budgeting



Widget engineering
“Draw it up, and build it like you drew it”

Order-taker mentality
“You build, what we tell you to build”

Maximize utilization
“The more we start, the more we finish”

Control through milestones and reports
“If we still can’t tell where we are we will just ask for more detailed data”

We can plan a full year of projects in advance
“If we only planned in more detail, we could really get it right this year.”

Just get it done
“This is the plan we agreed to; now execute it”

The basis for our traditional thinking and process is ‘standardisation’ of output with minimised risk and controlled cost and timeframe ... not time to value and innovation

Image Source: Wikipedia and Image Source:<http://www.facebook.com/pages/The-Principles-Of-Scientific-Management/217836834896543>

Image Source: Wikipedia http://en.wikipedia.org/wiki/File:Henri_Gantt.jpg

The Challenge...

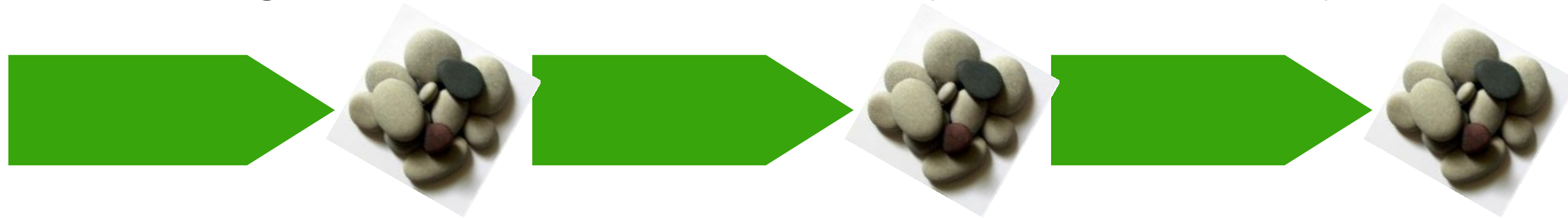
The world is moving at a phenomenal pace!
The more technology offers – the more we want!
Nothing is standing still – blink and you'll miss it!



In today's environment companies must have the ability to identify shifts in trends and demand, and respond to these shifts quickly

Types of software development lifecycles used - Agile

Design, build, test and deploy incrementally

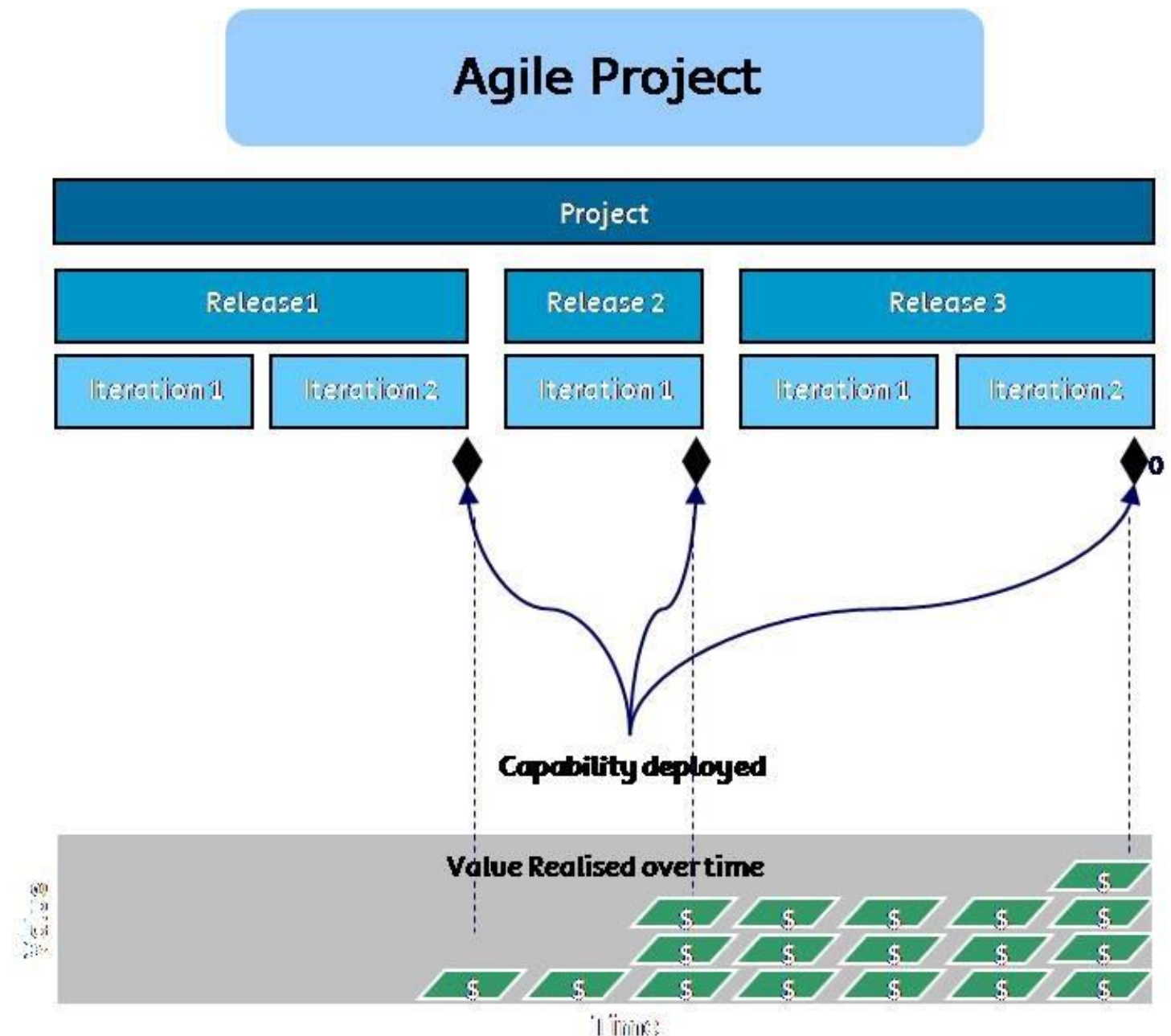
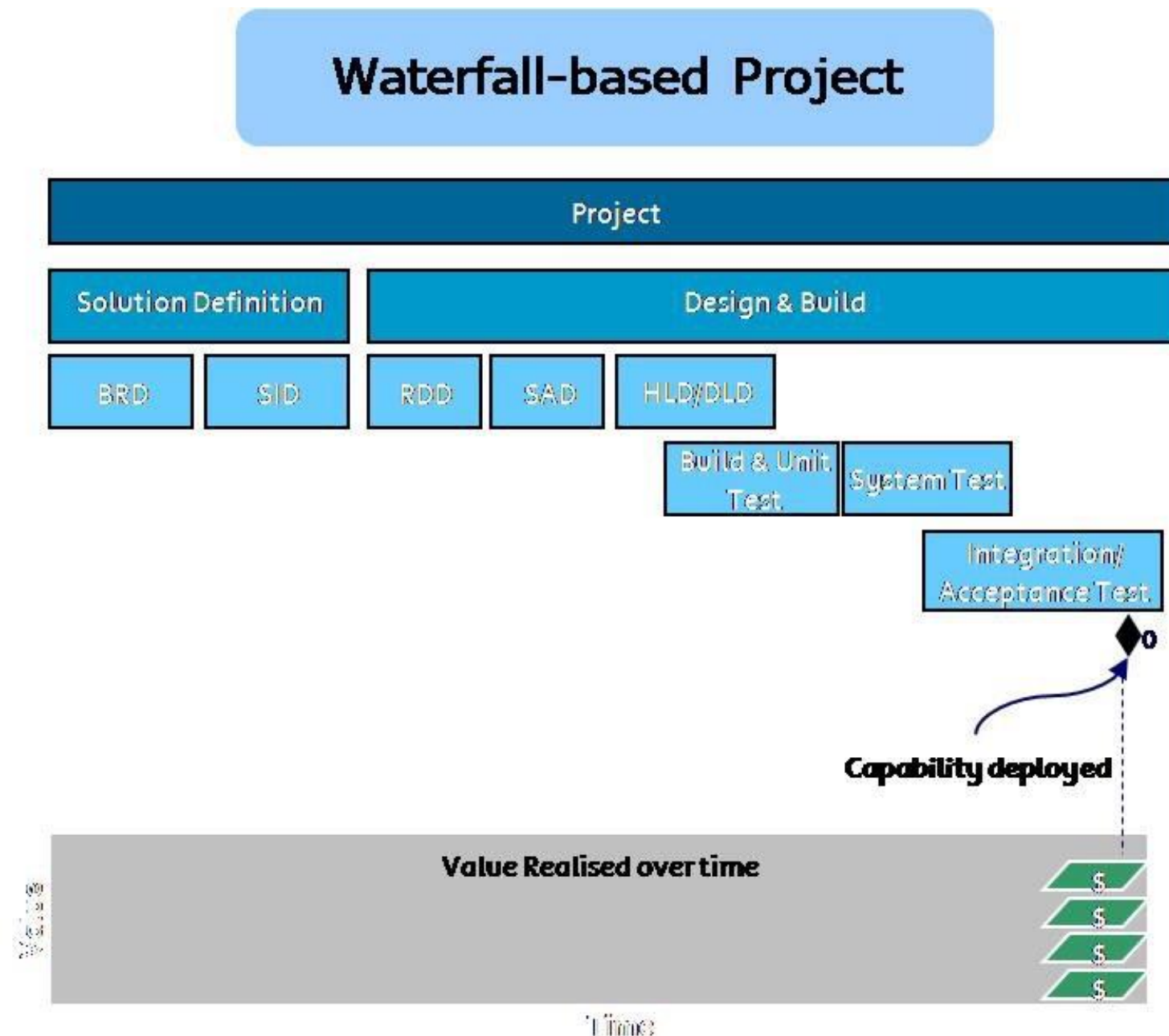


Agile works by breaking the project down into little bits of user functionality called [user stories](#), prioritising them, and then continuously delivering them in short cycles called [iterations](#).

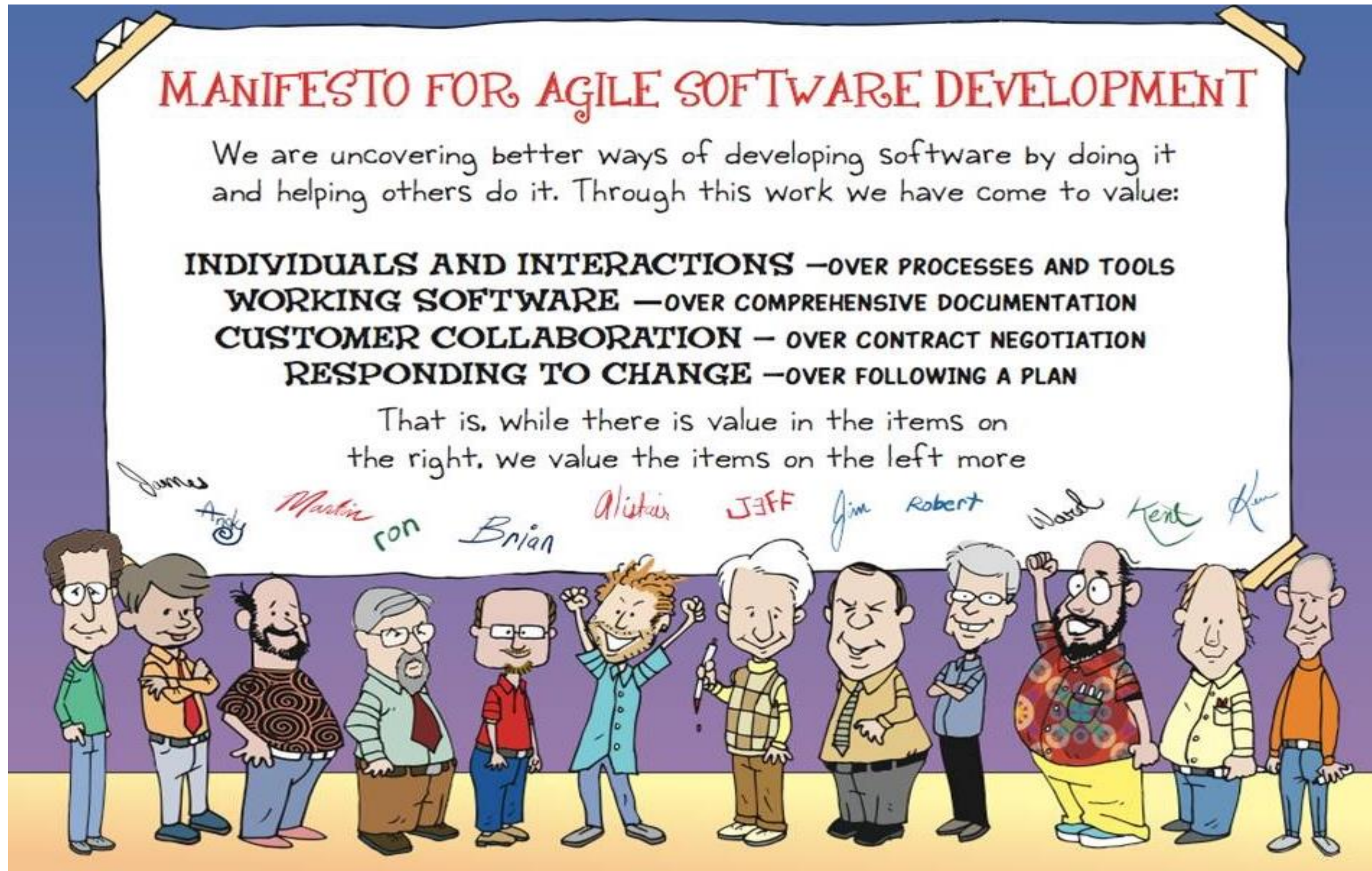
For the right initiatives an Agile approach de-risks project delivery, and accelerates the time to value.

The Case for Change

A waterfall-based project only delivers value at the end, while agile approaches can deliver value more progressively:

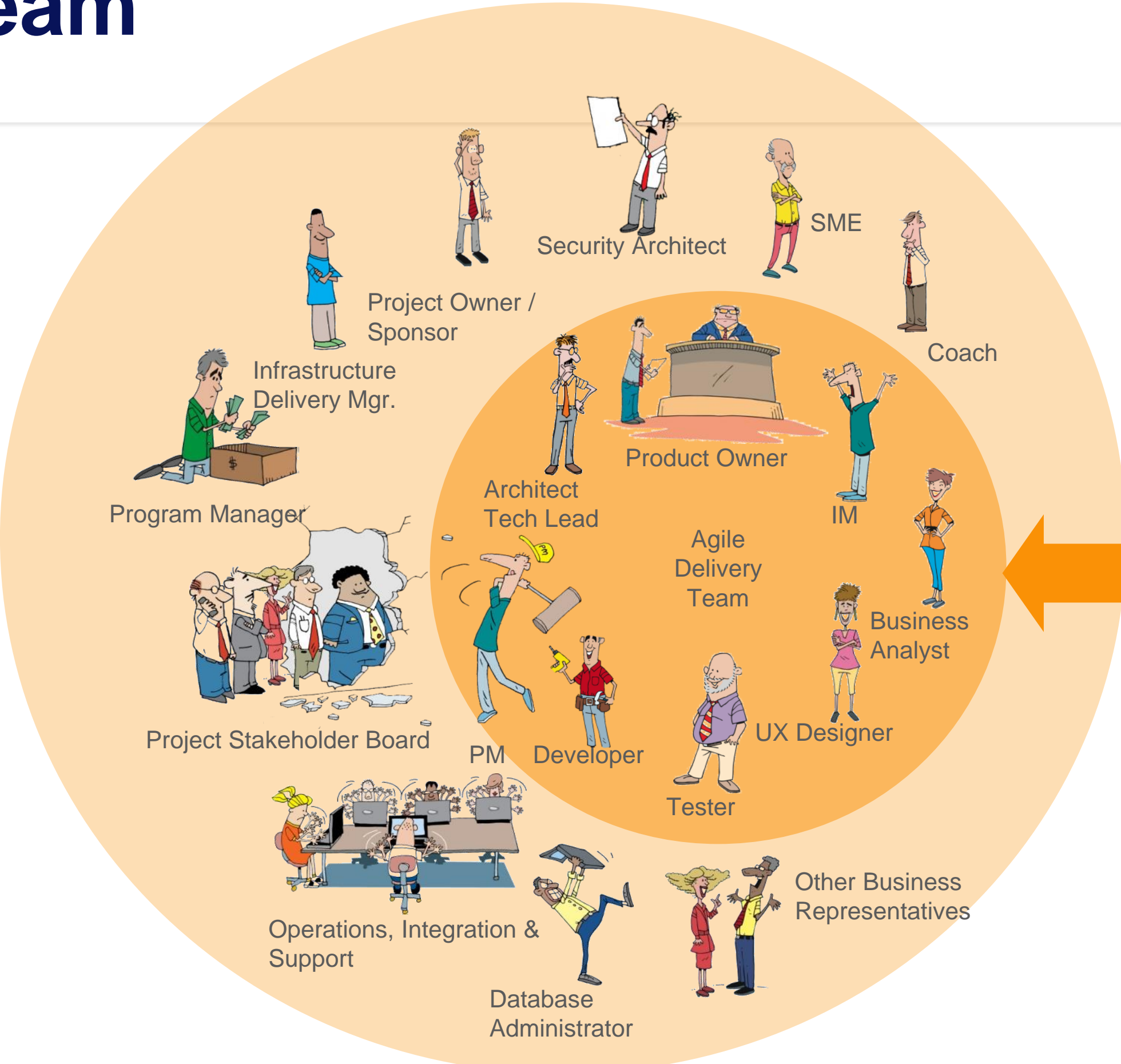


What is agile?



The Agile Team

Extended
team

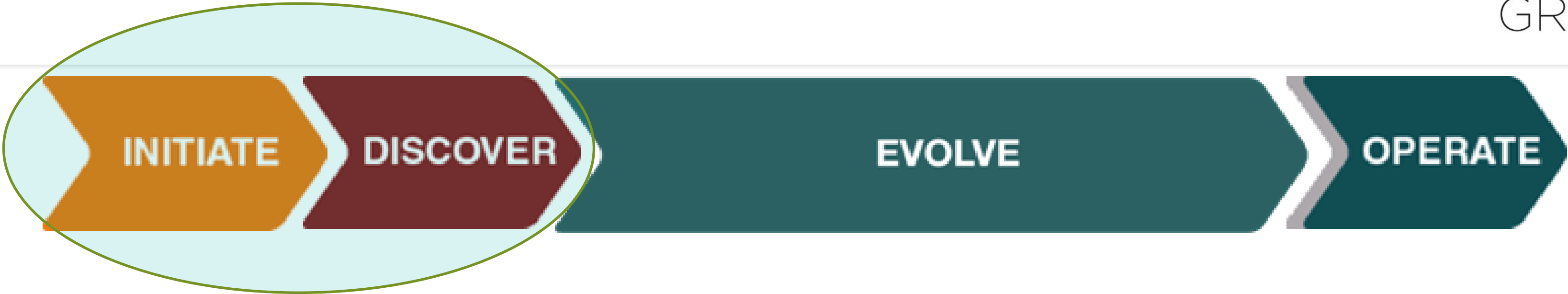


Core
team

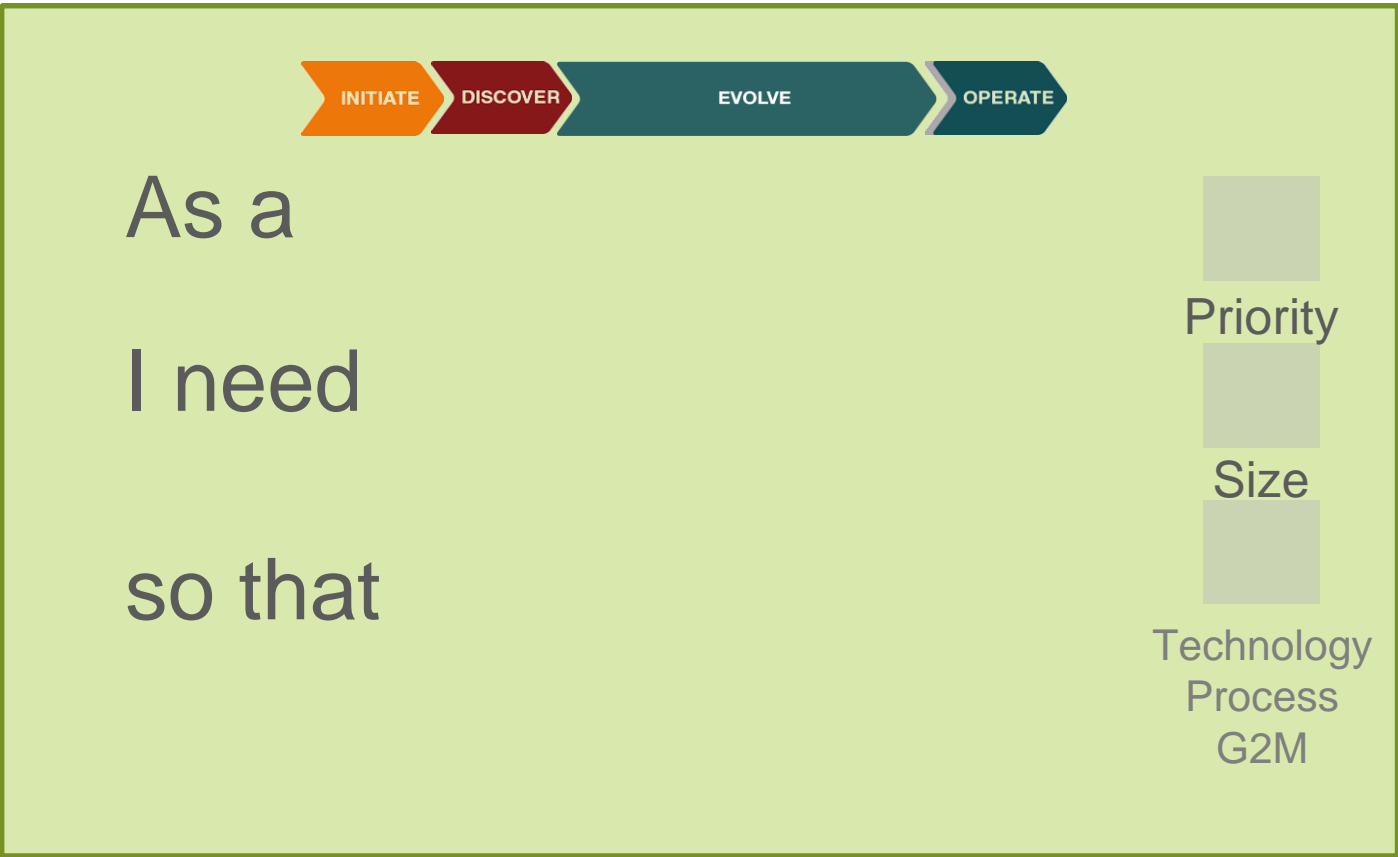


BASIC AGILE PRACTICES

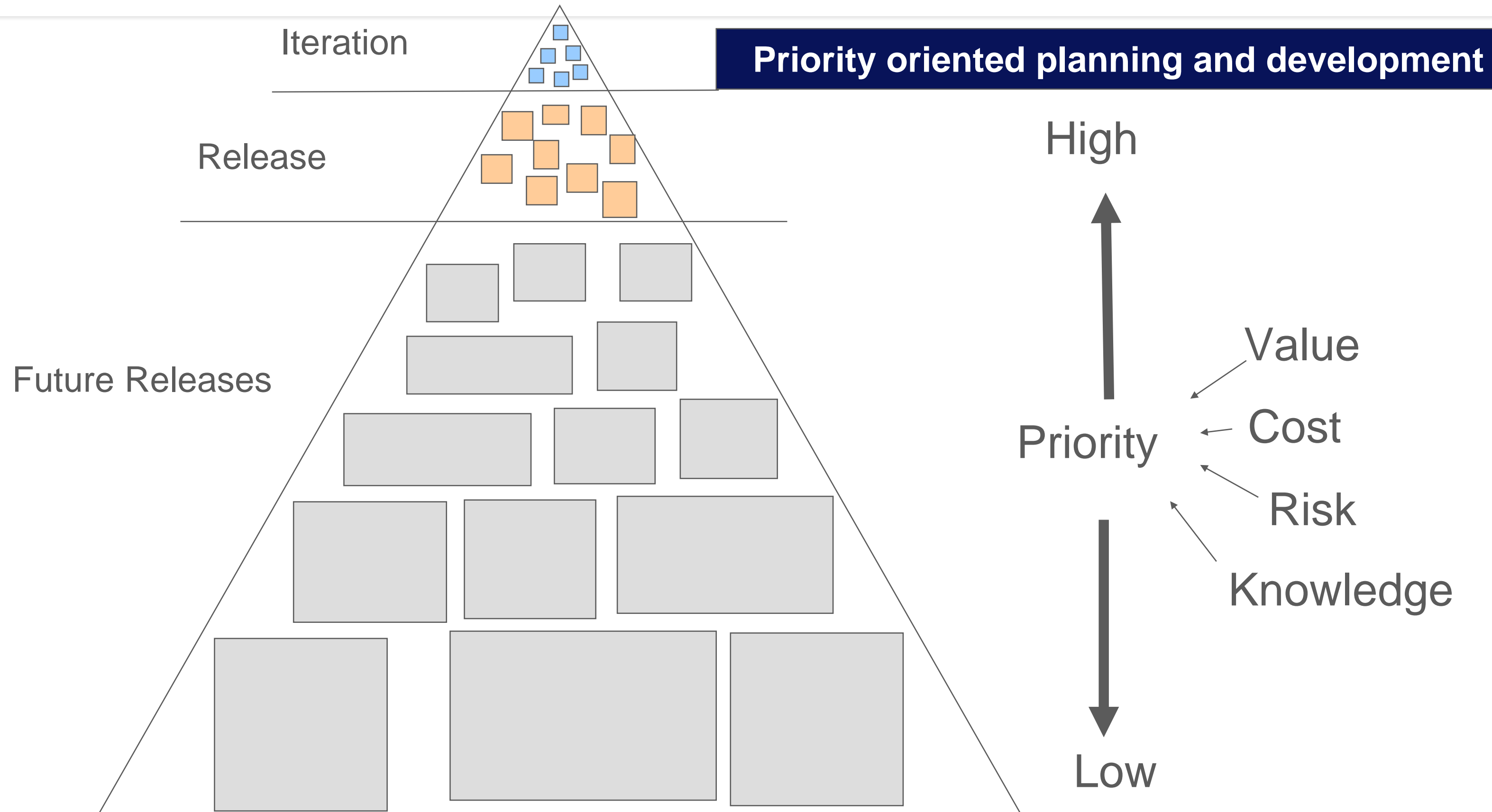
Understanding Business value and getting started



The Initiate and Discover phases of agile allow a common understanding of the business value across the delivery team

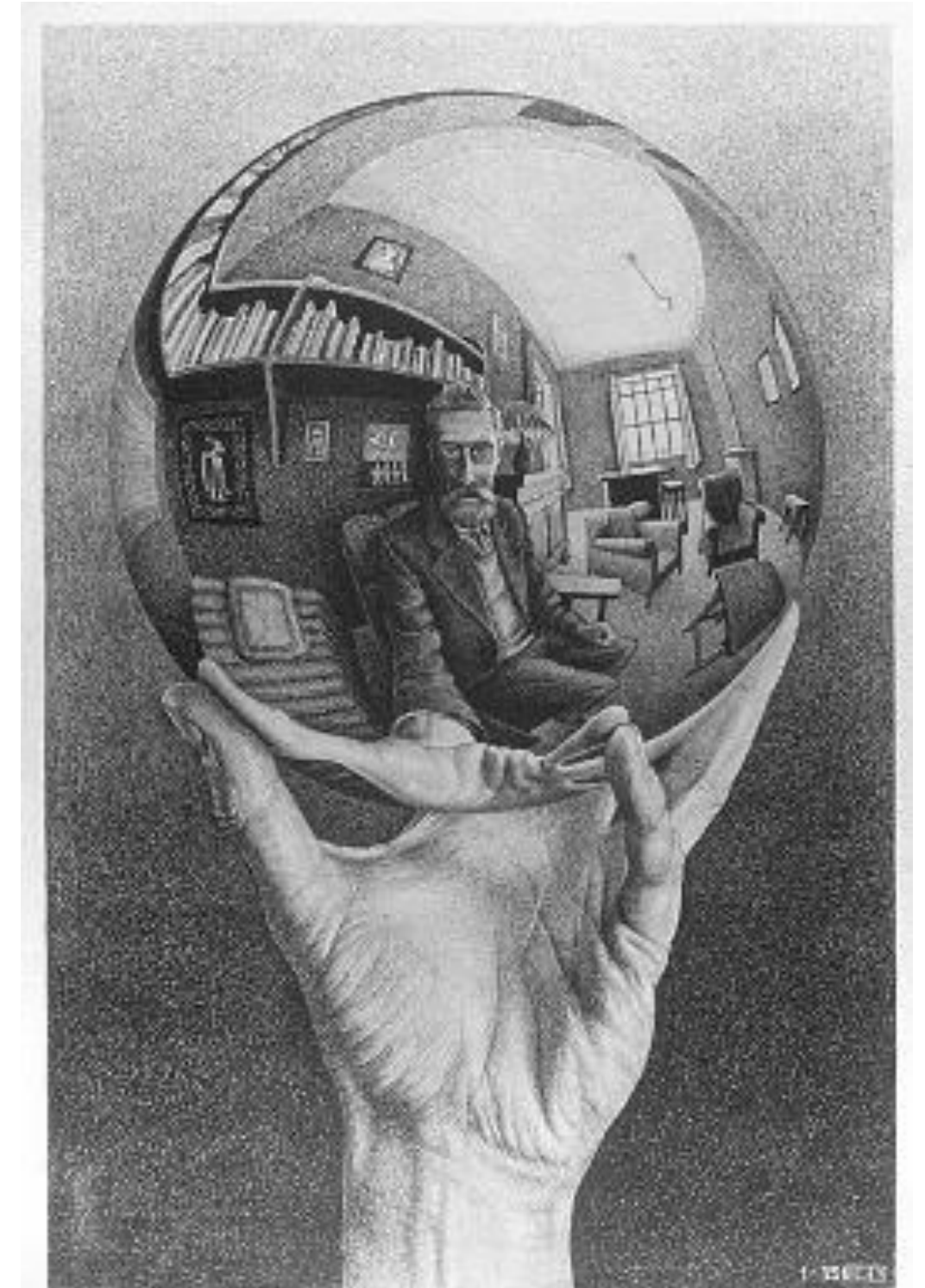


The Agile Planning



Retrospectives

Retrospectives are regular reviews of the team, by the team, to discuss how they are working



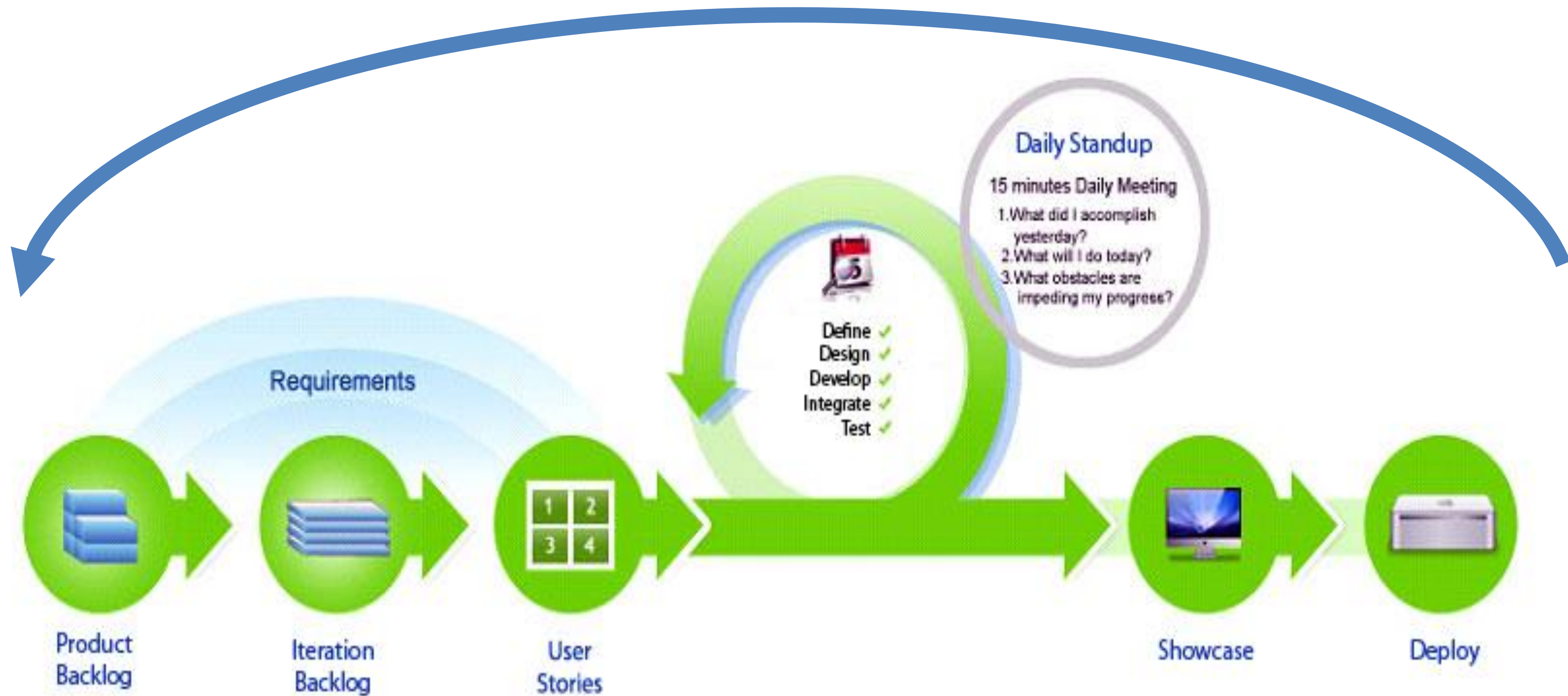
Daily Stand up



Showcases



Next Iteration



User Stories

STORY

As a <User>

I want to <do something>

So That <I get some benefit>

User stories are part of an agile approach that helps shift the focus from writing about requirements to talking about them.

A good Story should be:

- Independent?
- Able to be estimated?
- Small enough to be completed within an iteration?
- Testable?

Story #01 Search for flights

As a holiday traveller

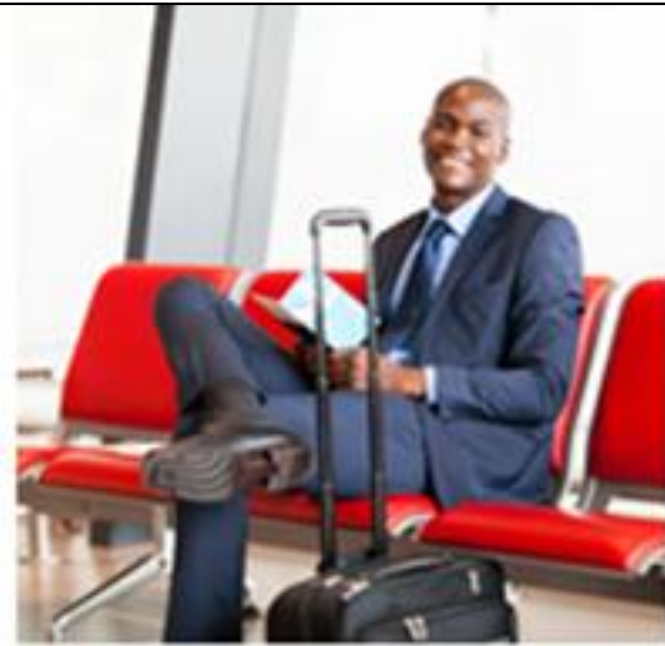
I want to be able to search for available flights on the date and for the destination I want to travel to

So that I can choose the flight that best suits my holiday plans

Why include the user?



Story Discovery



Jeff – the Frequent Traveller

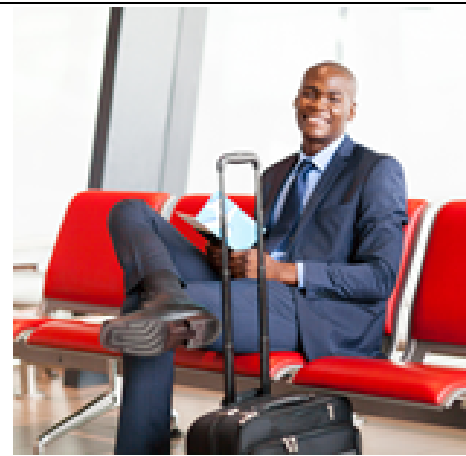
- **Personas**
- **Story Development**
- **Story Prioritisation**

Story #01	Search for flights
As a holiday traveller	
I want to be able to search for available flights on the date and for the destination I want to travel to	
So that I can choose the flight that best suits my holiday plans	



Story Discovery – Personas

Personas help us to understand who our users are

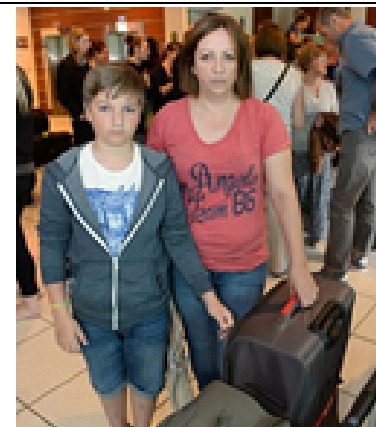


Jeff – the Frequent Traveller

He has a job that requires him to travel a lot between the companies worldwide offices.

He wants to have complete control over booking flights, hotels and rental cars in one online tool so that he can make all of his bookings quickly and easily.

The last think he wants is to spend a lot of time making travel plans and because he usually travels to and from the same cities, he would like to be able to save regular travel criteria as favourites that he can recall to speed up the booking process.



Susan – the Holiday Maker

Susan plans a summer holiday for her family each year.

She always tries to get the best value for money by finding the cheapest flights available.

Because she is travelling with her children, she would like to be able to choose seats at the time of booking so that the family is able to sit together.

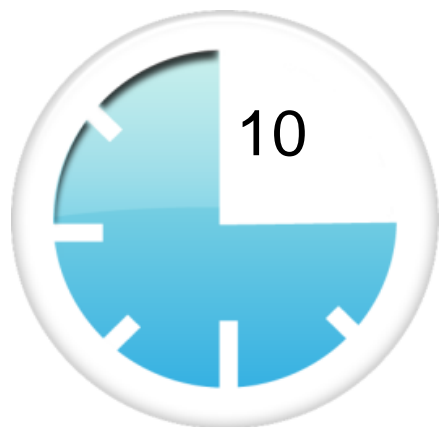
As one of her children has special needs, she would also like to be able to easily include special access and dietary requirements at the time of booking.

Activity – Personas

We are developing new services to include Travel.

**We need to develop an Online Accommodation booking tool
to support this new Business initiative.**

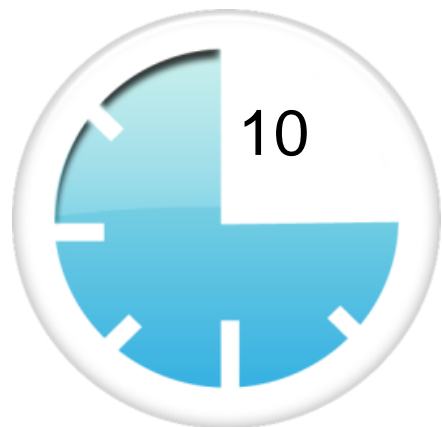
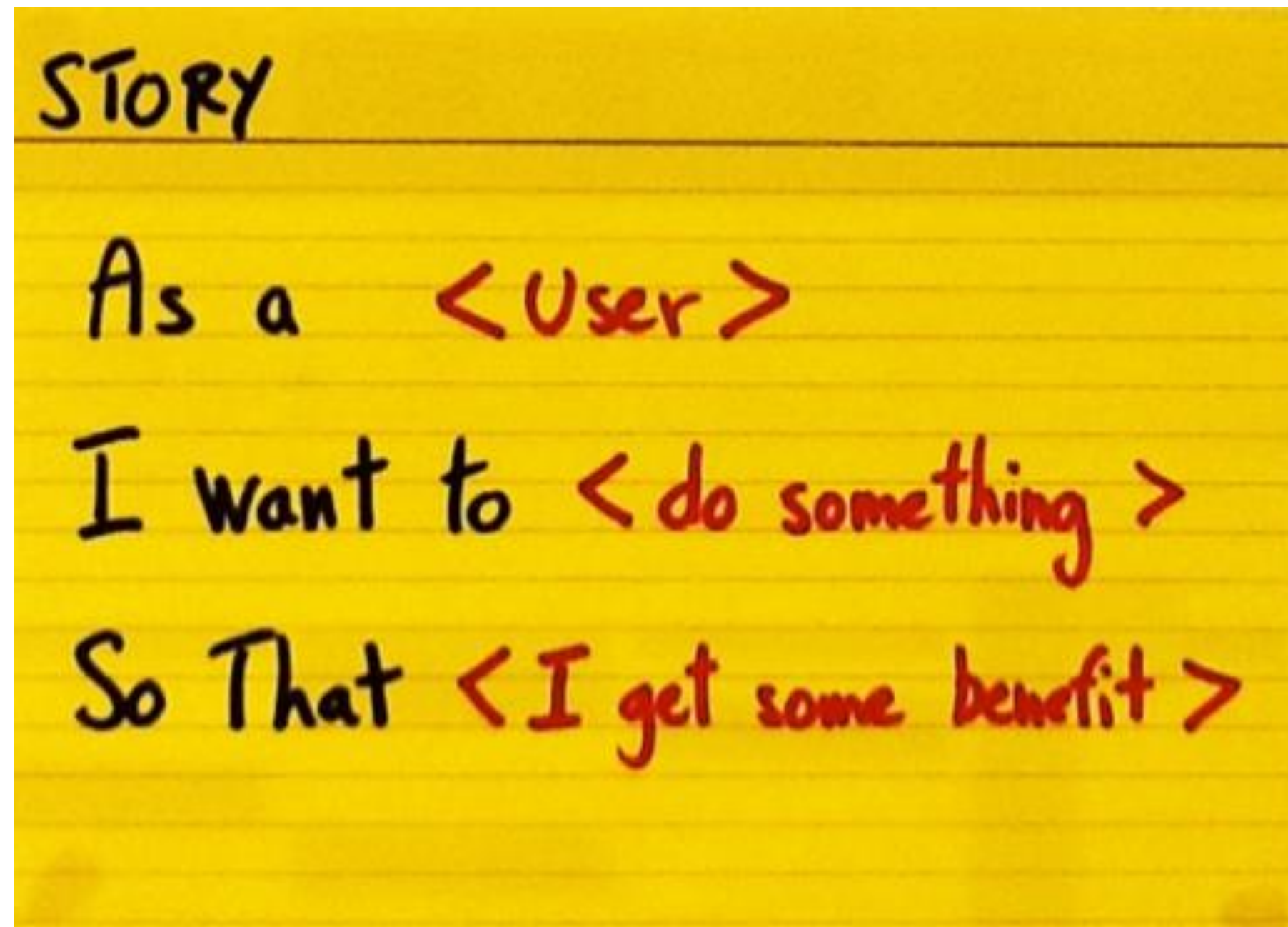
**With the person next to you write think of another persona
for our new web site and write a description.**



Examples from the room?

Activity – User Stories

With the person next to you write three user stores for a new online accommodation booking web site



Examples from the room?

Story Discovery – Story Prioritisation

Once we've identified a number of stories, we have a Product Backlog
All items in the product backlog need to be prioritised



Must have – a requirement that has to be present in the final solution for it to be a success

Should have – a requirement has a high priority but can be substituted by another means if absolutely necessary

Could have – a requirement that is seen as nice to have if time and budget permit and all “Musts” and “Shoulds” have been delivered

Won't have – a requirement that would be nice to have if at all possible and all other criteria have been fulfilled, or is a requirement for the future

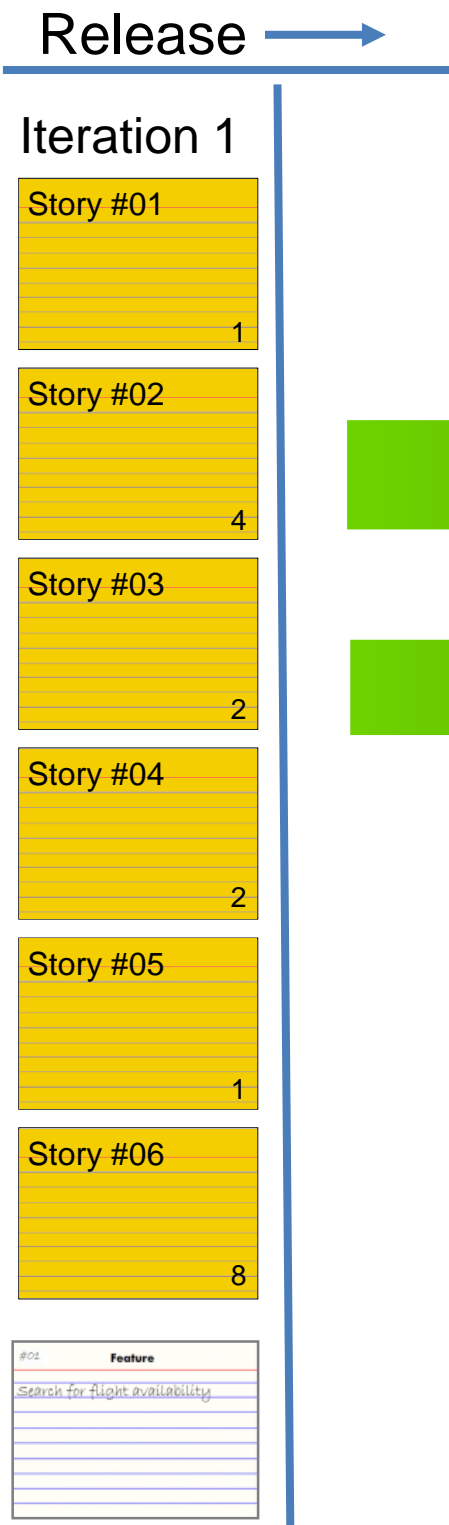
Customer Journeys Maps



Release plan based on value prioritisation

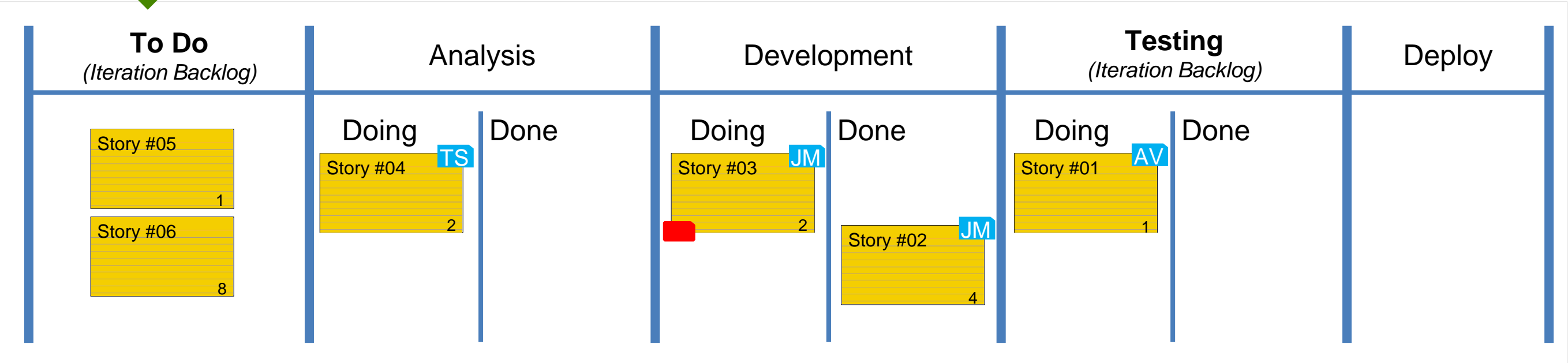
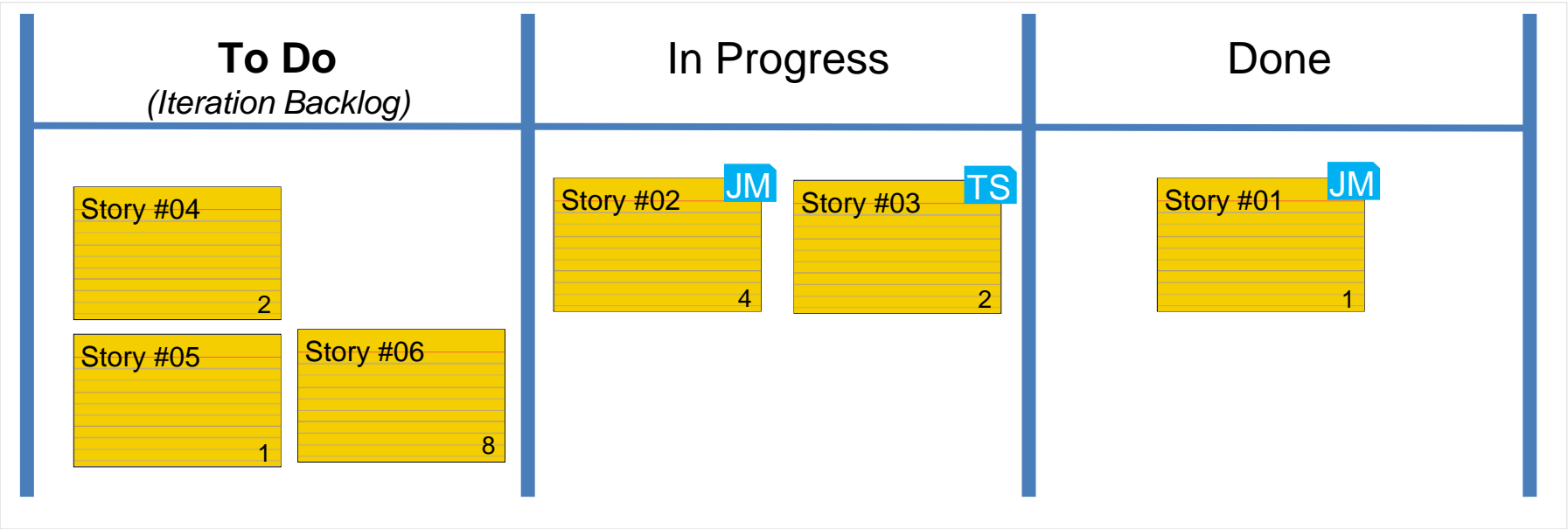
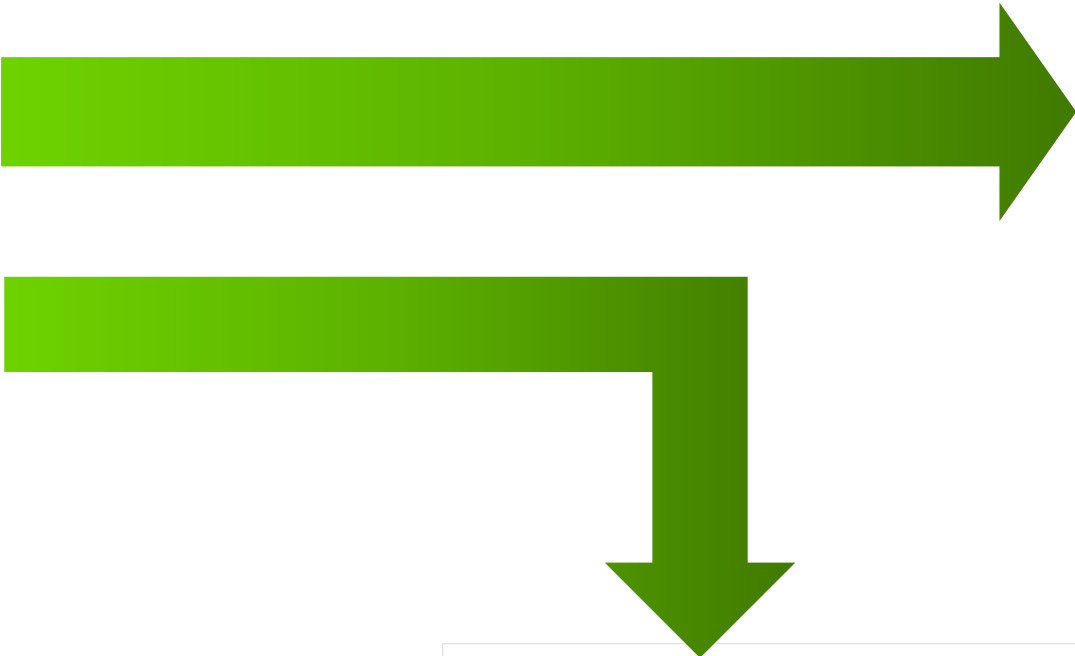


Kanban Wall



A Kanban Wall is a visual representation of the work being undertaken by the team

In the daily stand-up each team member updates the progress of their tasks by moving cards assigned to them along the wall



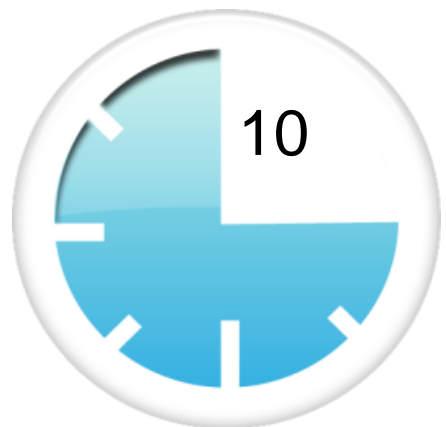
Kanban Wall



You've been asked to run your first Agile Project, starting tomorrow!

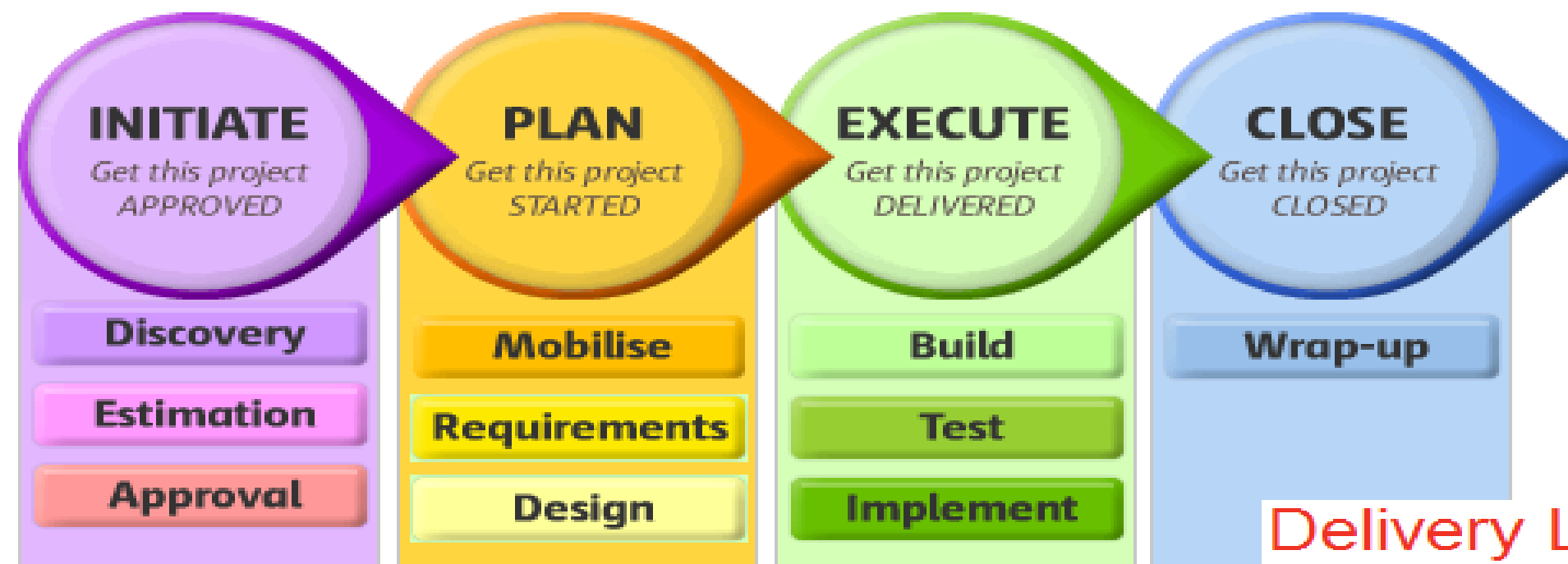
What's the first concern you would have when you kick off your first Agile Project?

What would you like to ask an Agile Guru if you had 10 minutes of their time?

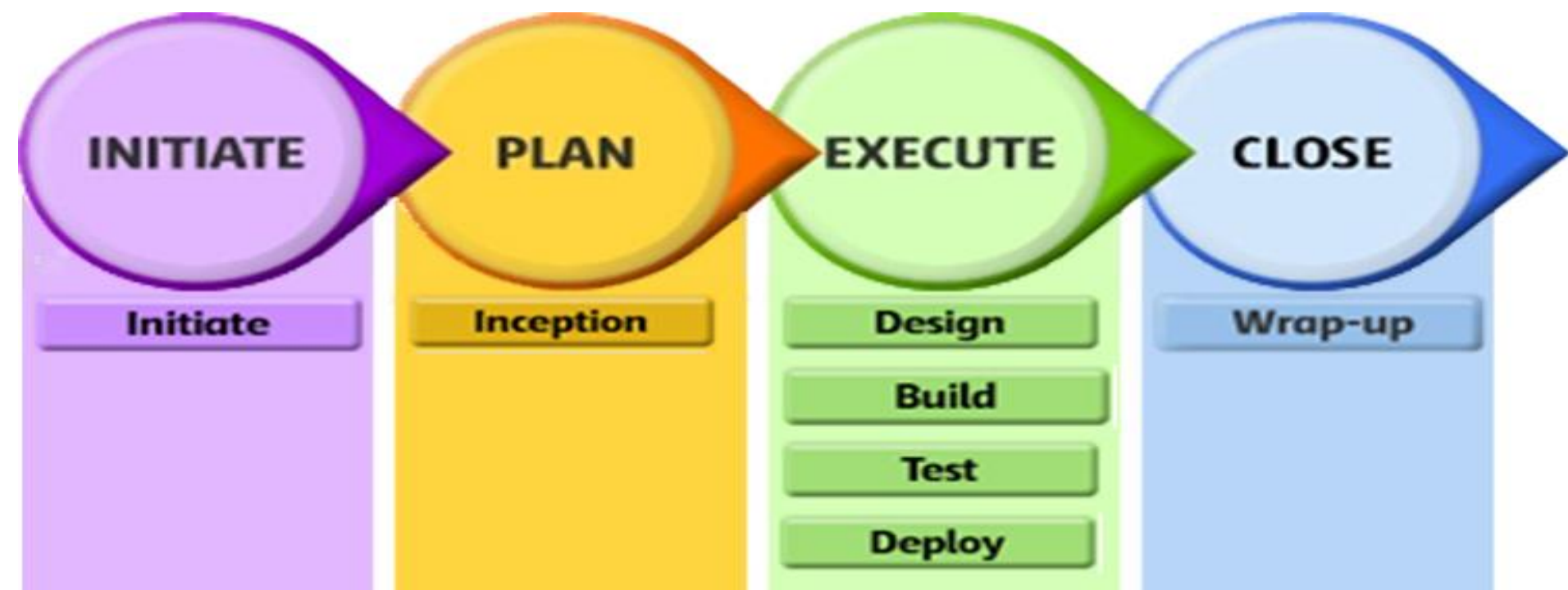


Methodologies

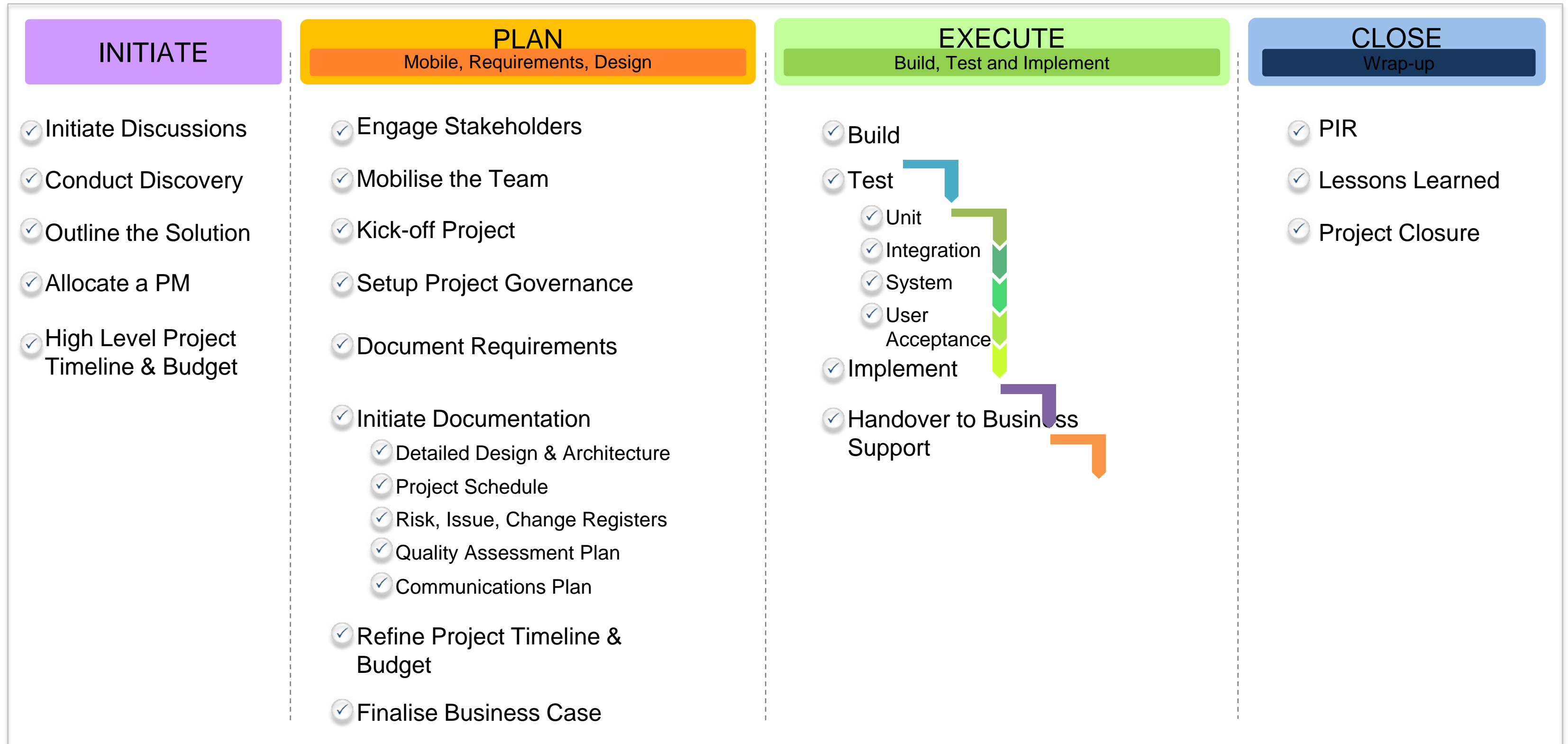
Delivery Lifecycle - Waterfall



Delivery Lifecycle - Agile



The Waterfall Model



The Agile Model

There are a few different agile methodologies, although Agile is really more of a philosophy than a methodology...

Lean/Kanban

focuses on cutting out as much as possible and retaining only the bare minimum process

Scrum

**probably the most popular globally
focuses on agile management and how to better organise teams**

XP

Extreme Programming includes some management elements but emphasises technical practices so is more of an engineering methodology

DSDM

**Dynamic Systems Development Method
an early iterative method, mainly used in the UK**

Others – Less Common

**Crystal
Feature Driven Development
Enterprise Agile (or XBreed)
Agile Unified Process**

The Agile Model

INITIATE

- ✓ Initiate Discussions
- ✓ Find a Team
- ✓ Find a Space
- ✓ Allocate a PM
- ✓ Plan the Inception
- ✓ High Level Project Timeline & Budget

PLAN

Inception (usually < 4 weeks)

- ✓ Mobilise the Team
- ✓ Run the Inception
 - ✓ Business & Project Context
 - ✓ Story Discovery
 - ✓ Technical Vision
 - ✓ Estimation & Planning
 - ✓ RAIDS & Communications
- ✓ Decide if project is viable

EXECUTE

Design, Build, Test and Deploy

- ✓ Ongoing Iteration Planning
- ✓ Iterations
 - ✓ Analyse
 - ✓ Develop
 - ✓ Test
 - ✓ Deploy
- ✓ Stand-ups
- ✓ Showcases
- ✓ Retrospectives



CLOSE

Wrap-up

- ✓ PIR
- ✓ Lessons Learned
- ✓ Project Closure

Project Management Processes



Why is a delivery model important?

- **The size and complexity of the project portfolio requires a formalised approach**

Portfolio



- **To ensure the right projects are implemented to achieve benefits for the business**

Business Benefits



- **To ensure projects are setup for Success and governed in a managed way to control costs, time & benefits**

Success

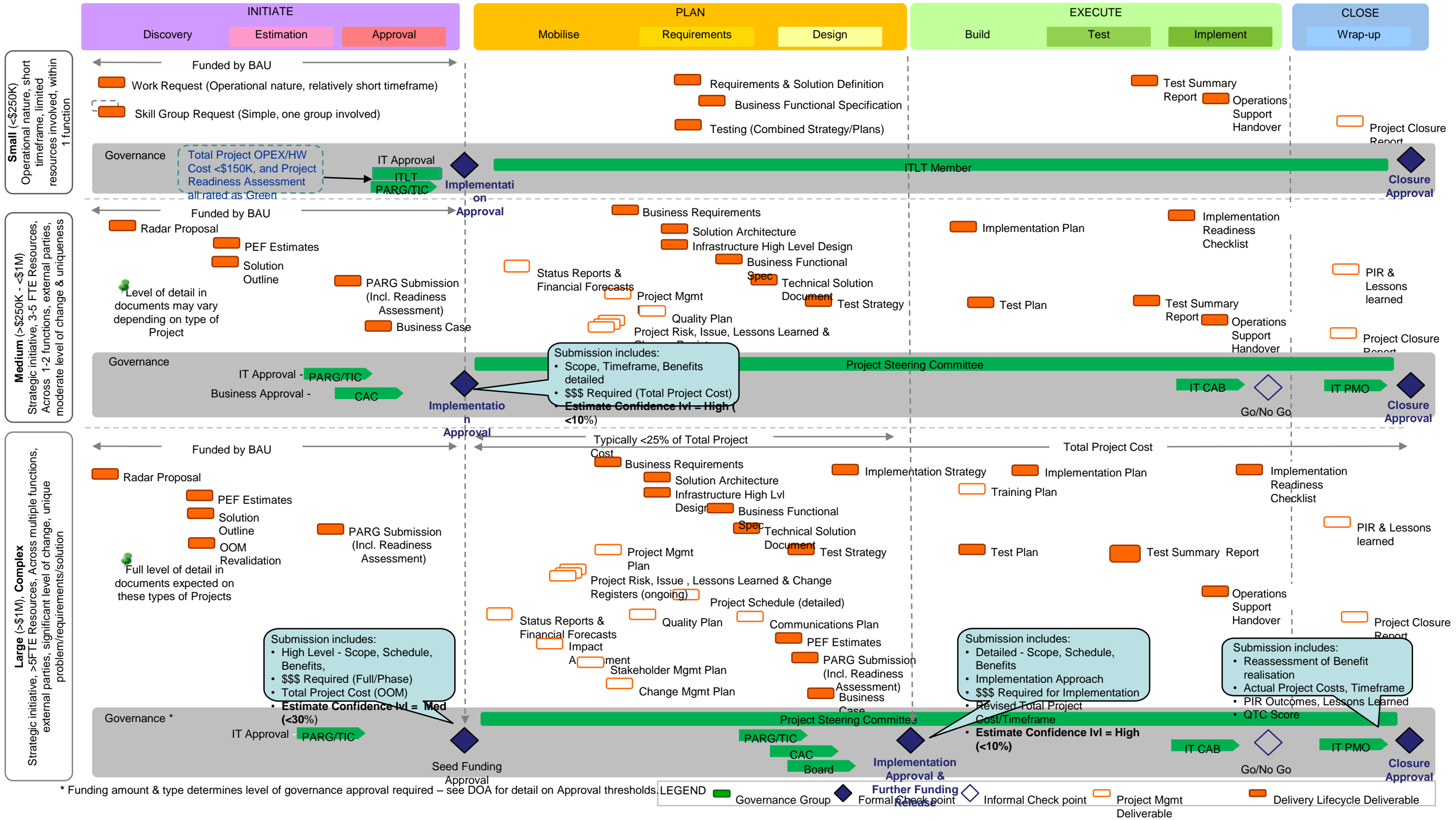


- **To ensure project tasks proceed in a predictable and consistent manner**

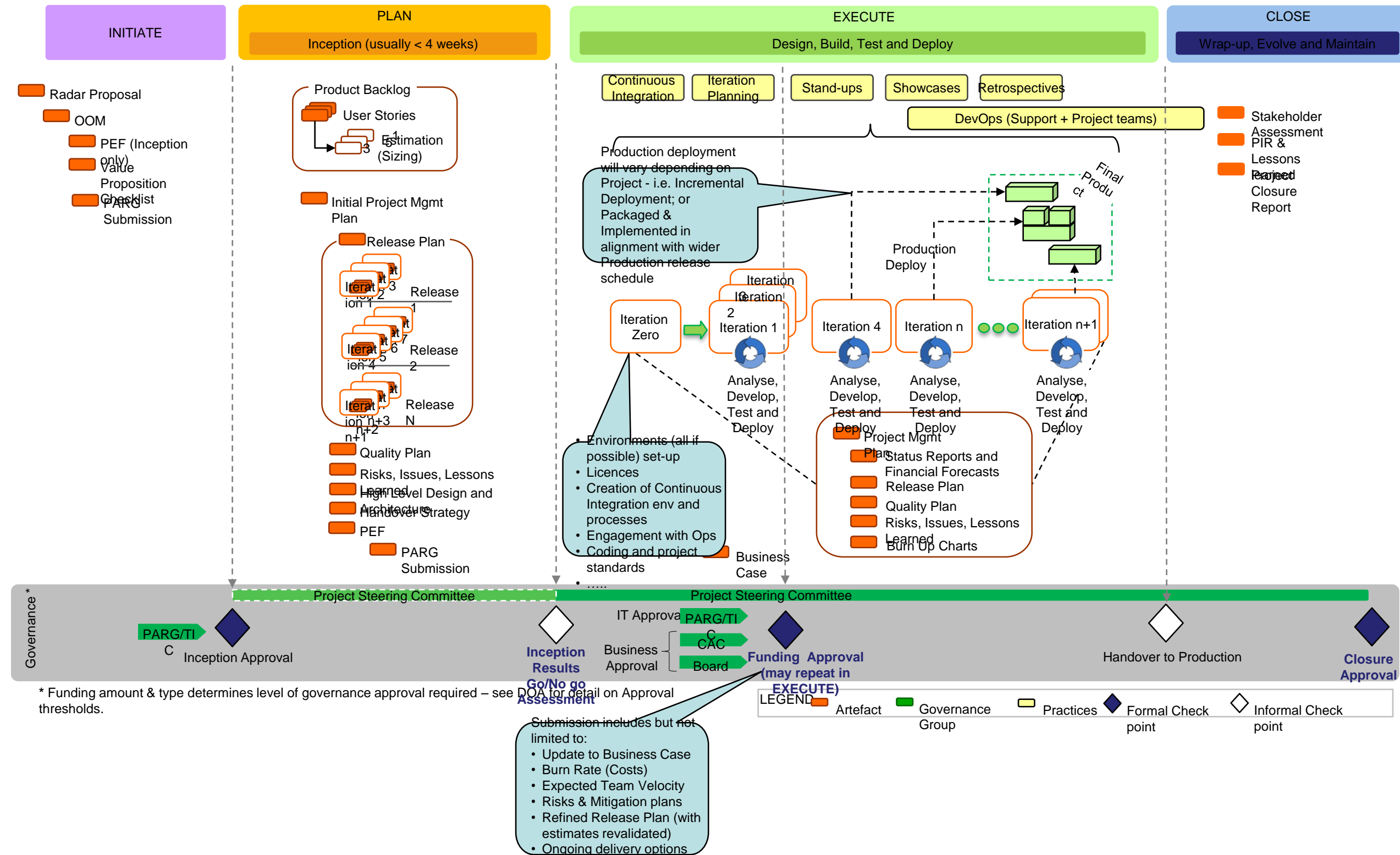
Consistency



IT Waterfall Delivery Model



IT Agile Delivery Model





MELBOURNE
SCHOOL OF
ENGINEERING

Q & A